	Analization No.	A li + (-)	000
	Application No.	Applicant(s)	•
Notice of Allowability	10/622,691 Examiner	TANABE ET AL. Art Unit	1
nous of Amorrasmy			
	Mahmoud Gimie	3747	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not includ on will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to <u>filing on 7/21/03</u> .			
2. ☑ The allowed claim(s) is/are <u>1-11</u> .			
3. \boxtimes The drawings filed on <u>21 July 2003</u> are accepted by the Ex	aminer.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the post attached Examiner's comment regarding REQUIREMENT Is Acknowledged to the depost attached Examiner's comment regarding REQUIREMENT Is the priority of the such sheet. Replacement sheet(s) should be labeled as such in the tatached Examiner's comment regarding REQUIREMENT Is the priority of the such sheet. Replacement sheet(s) should be labeled as such in the tatached Examiner's comment regarding REQUIREMENT Is the priority documents the tatached Examiner's comment regarding REQUIREMENT Is the priority documents the tatached Examiner's comment regarding REQUIREMENT Is the priority documents the tatached Examiner's comment regarding REQUIREMENT Is the priority documents the tatached Examiner's comment regarding REQUIREMENT Is the priority documents the tatached Examiner's comment regarding REQUIREMENT Is the priority documents the tatached Examiner's comment regarding REQUIREMENT Is the priority documents the tatached Examiner's the tatach	been received. been received in Application No. cuments have been received in this of this communication to file a repl ENT of this application. itted. Note the attached EXAMINE is reason(s) why the oath or declar it be submitted. on's Patent Drawing Review (PTC is Amendment / Comment or in the is Amendment / Comment or in the is tof BIOLOGICAL MATERIAL	s national stage applicate y complying with the reserved of the reserved of the state of the sta	quirements IOTICE OF
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. Notice of Informal 6. Interview Summar Paper No./Mail D 8), 7. Examiner's Amend 8. Examiner's Statem 9. Other	y (PTO-413), ate dment/Comment	

Application/Control Number: 10/622,691

Art Unit: 3747

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The primary reason for allowance of claims 1,4 and 9 is the inclusion of the limitations of

"A pulse interval calculating unit calculating pulse intervals between respective crank pulse signals; and a determination unit determining that the pressure elevating mechanism is malfunctioning when variations of the pulse intervals exceed a determination threshold." in claim 1;

"A pulse interval calculating unit calculating pulse intervals between adjacent crank pulse signals; and a determination unit determining that the pressure elevating mechanism is malfunctioning when variations of the pulse intervals exceed a determination threshold, and the calculated deviation of the opening-closing signal exceeds an allowable deviation range" in claim 4; and

"Calculating variations of the average of pulse intervals; determining whether or not the variations are above a reference value; determining whether or not the variations remain above the reference value longer than a preset time period; and determining that the pressure elevating mechanism is malfunctioning when the variations are determined to be above the reference value for the preset time period. " in claim 9 that the prior art of record neither taught nor suggested.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mahmoud Gimie whose telephone number is 703-305-1037. The examiner can normally be reached on Tuesday-Friday between 7 a.m. -3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 703-308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MG

MAHMOUD GIMIE
PRIMARY PATENT EXAMINER
PRIMARY PATENT 9747